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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,493	03/23/2007	Tetsuichi Motegi	288939US0X PCT	2363
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			LIN, ING HOUR	
ALEXANDRIA	A, VA 22314	•	ART UNIT PAPER NUMBER	
			1725	
			NOTIFICATION DATE	DELIVERY MODE
			10/05/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Application No.	Applicant(s)			
Office Action Summary		10/574,493	MOTEGI ET AL.			
		Examiner	Art Unit			
	•					
7	The MAILING DATE of this communication app	Ing-Hour Lin ears on the cover sheet with the c	1725 orrespondence address			
Period for F						
WHICHE - Extension - after SIX - If NO per - Failure to Any reply	ETENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Individual of the provision of the mailing date of this communication. In order or eply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, or received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ Re	esponsive to communication(s) filed on 23 Ma	arch 2007 and 11 June 2007.				
2a)∐ Th	This action is FINAL . 2b)⊠ This action is non-final.					
3) <u>□</u> Si	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
clo	osed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition	of Claims					
4aj 5)∐ Cl 6)⊠ Cl 7)∐ Cl	aim(s) 1-12 is/are pending in the application. Of the above claim(s) is/are withdraw aim(s) is/are allowed. aim(s) 1-12 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or					
Application	Papers					
9) <u></u> Th∈	e specification is objected to by the Examiner	r.				
	10)⊠ The drawing(s) filed on <u>03 April 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	placement drawing sheet(s) including the correcti e oath or declaration is objected to by the Exa					
Priority und	ler 35 U.S.C. § 119					
a)⊠ / 1.[2.[3.[Certified copies of the priority documents Certified copies of the priority documents	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
		· .				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/3/06 & 12/11/06. 5) Notice of Informal Patent Application Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al in view of Wognum.

Adachi et al (col. 7, lines 48+) substantially teach the claimed method and device for the production of magnesium alloy slurry to be semi-molten-molded, comprising the use of pouring the molten alloy, a cooling jig and a vibrating jig to preventing a solidified layer (col. 10, lines 38+) and teach the use of a tilted cooling body or cooling jig 70 having a cooled casting surface for generating crystal nuclei.

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Adachi et al fail to teach the use of an integrated tilted cooling body vibrated by a vibrating mechanism. However, Wognum (col. 2, lines 65+) teaches the use of a vibrating mechanism including shafts 30 and an electric motor 33 integrated with a casting surface such as a cooling mold plate in a continuous casting for the purpose of effectively preventing molten metal solidified on the casting mold surface (col. 1, lines 30+). It would have been obvious to one having ordinary skill in the art to provide Adachi et al the use of a vibrating mechanism including shafts 30 and an electric motor 33 integrated with a casting surface such as a cooling mold plate or cooling jig 70 as taught by Wognum in order to effectively prevent crystal nuclei solidified on the on the casting surface (Wognum, col. 2, lines 65+).

4. Claims 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al in view of Wognum as applied to claims 1-6 above, and further in view of Jones.

Adachi et al in view of Wognum fails to teach the use of a cooled and vibrated mold for casting a magnesium alloy ingot. However, Jones (col. 2, lines 36+) teaches the use a cooled and vibrated mold for continuous casting an ingot, including a coolant flow interrupter for the purpose of effectively inducing vibrations in the mold wall in a direction generally normal to the surface of the strip or ingot being cast such that the cast ingot can be effectively withdrawn from the exit end of mold 35 (col. 4, lines 50+). It would have been obvious to one having ordinary skill in the art to provide Adachi et al in view of Wognum the use of a cooled and vibrated mold as taught by Jones in order to effectively cast and withdraw the ingot from the exit end of mold 35 (Jones, col. 4, lines 50+).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jonathan Johnson can be reached on 571-272-1177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

りれん I.-H. Lin

9-28-07

JONATHAN JOHNSON PRIMARY EXAMINER